

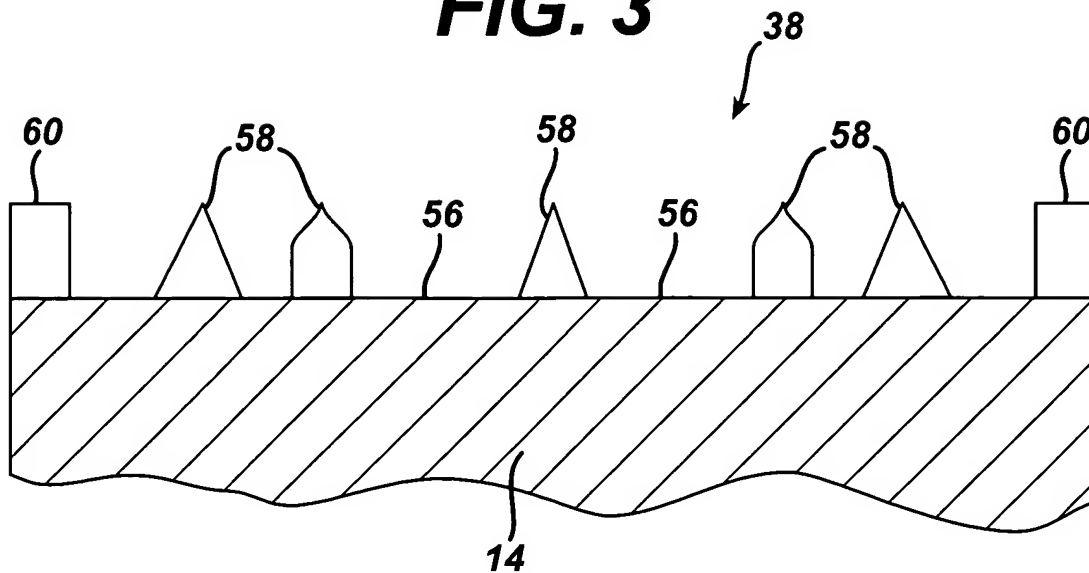
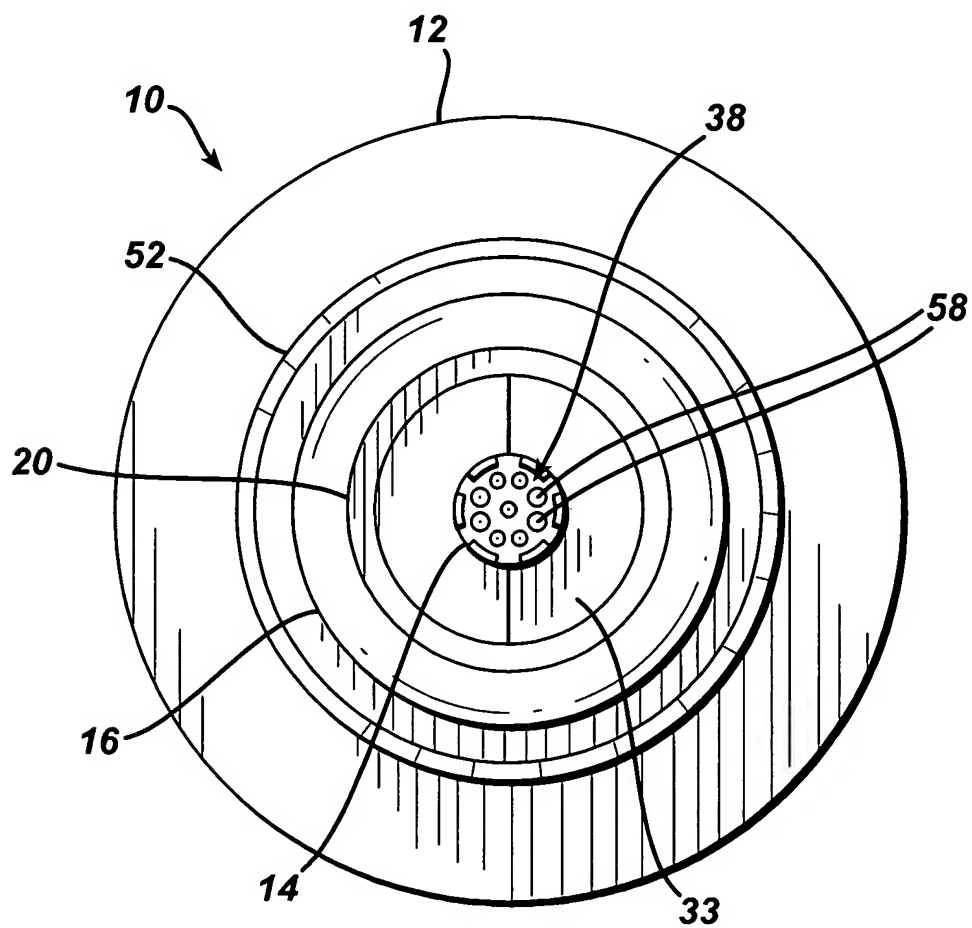
FIG. 3**FIG. 4**

FIG. 5

EFFECT OF MICROACTIVATION ON BCL-2 EXPRESSION
IN CULTURED KERATINOCYTES

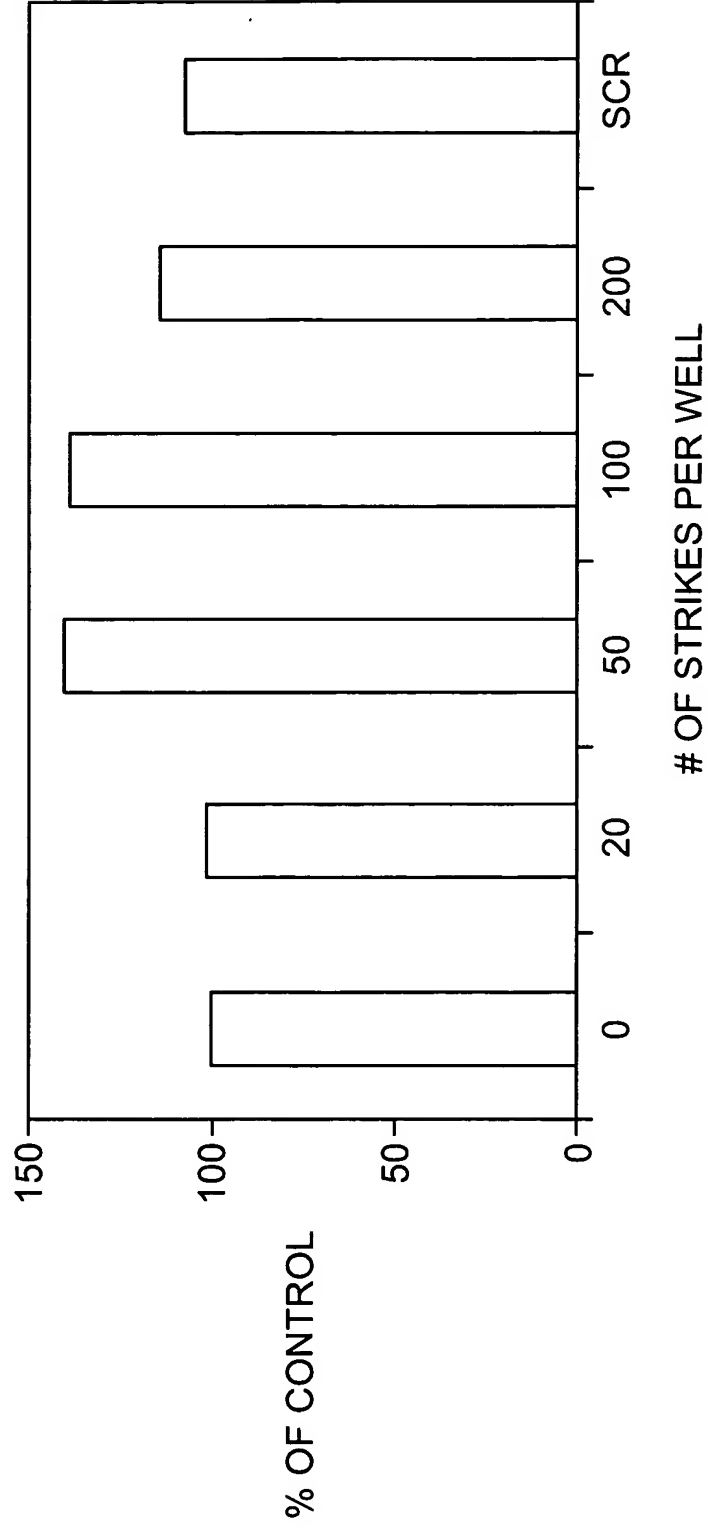


FIG. 6

EFFECT OF MICROACTIVATION ON KERATIN 16 EXPRESSION
IN CULTURED KERATINOCYTES

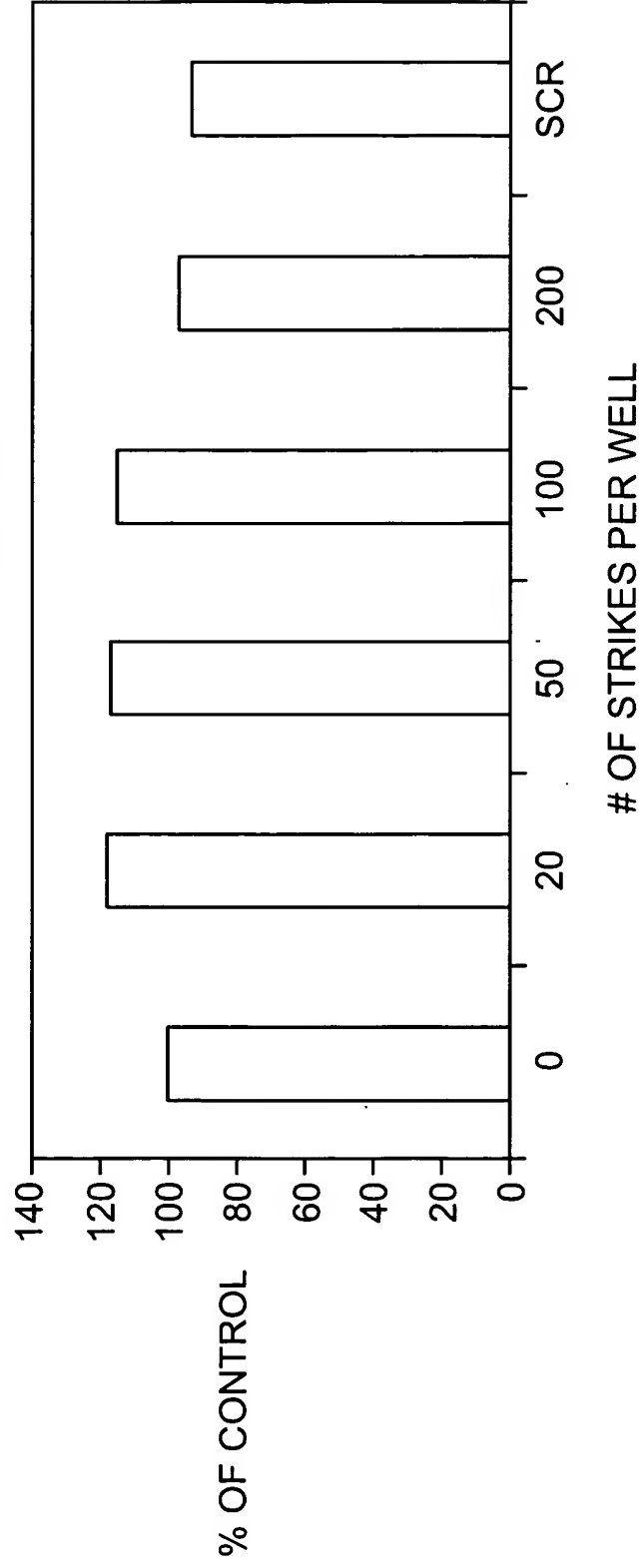
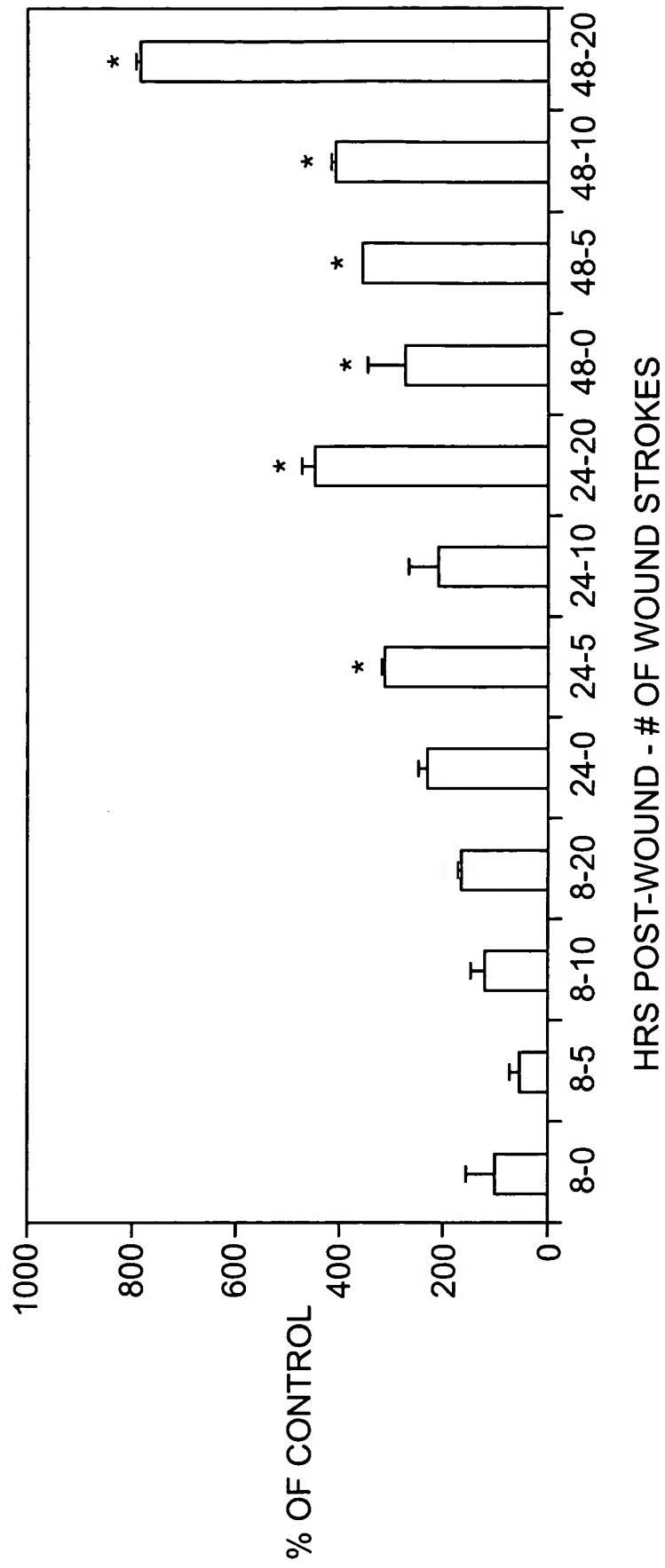


FIG. 7

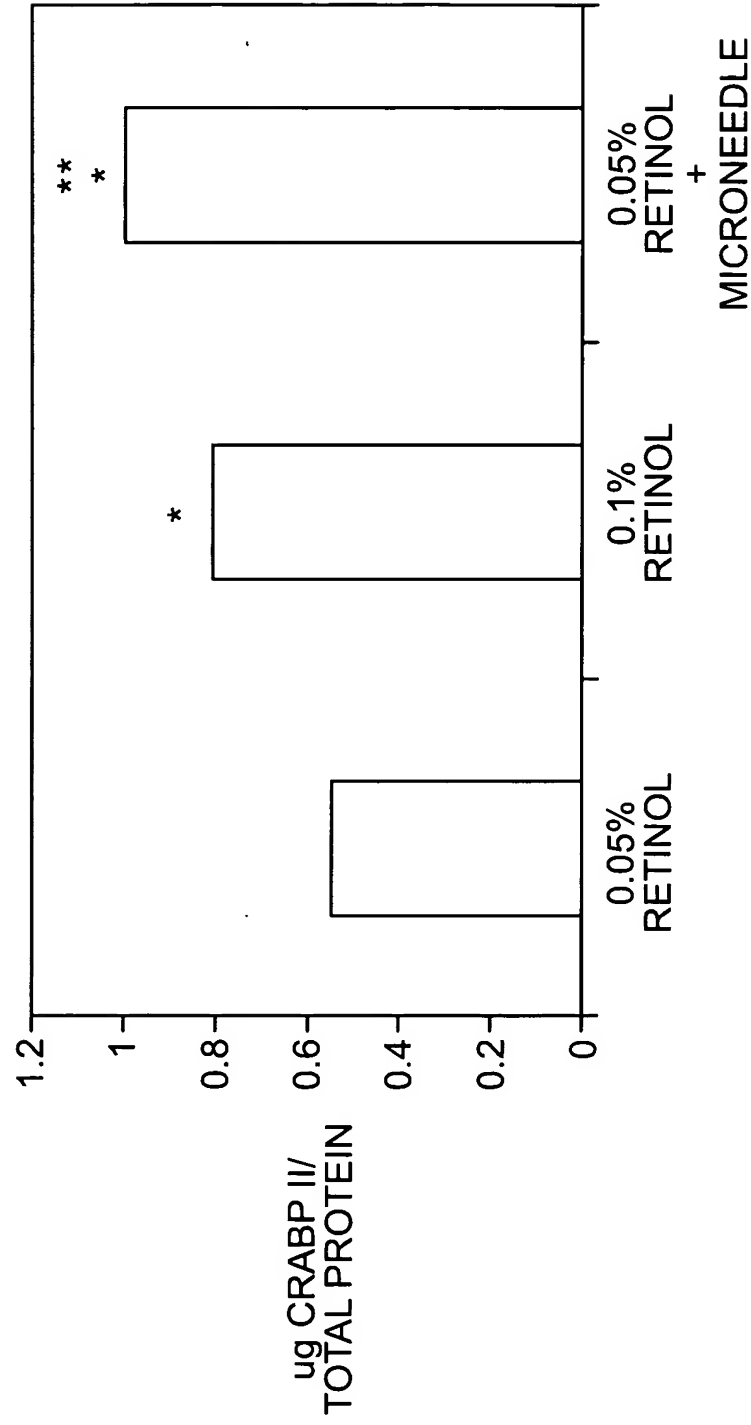
EXPRESSION OF PROCOLLAGEN 1 IN FIBROBLASTS TREATED
WITH WOUNDED KERATINOCYTE-CONDITIONED MEDIUM



*SIGNIFICANTLY DIFFERENT FROM SAMPLE 8-0 $P < 0.05$

FIG. 8

EFFECT OF COMBINED MICRONEEDLE AND RETINOL TREATMENT
ON CELLULAR RETINOIC ACID BINDING PROTEIN II
IN HUMAN EPIDERMIS



* SIGNIFICANTLY DIFFERENT FROM 0.05% RETINOL $P < 0.05$

** SIGNIFICANTLY DIFFERENT FROM 0.1% RETINOL $P < 0.05$

FIG. 9

MICRONEEDLE INDUCTION OF BLC-2 EXPRESSION

